

CLAIMS

We claim:

- 5 1. A movable wall comprising:
- a panel;
- a first bracket connected to a first side of said panel;
- a second bracket connected to a second side of said panel;
- a first screw, said first screw being located on said first side of said panel and
- 10 engaging said first bracket, whereby rotation of said first screw causes said first bracket to raise or lower;
- a second screw, said second screw being located on said second side of said panel and engaging said second bracket, whereby rotation of said second screw causes said
- second bracket to raise or lower;
- 15 a motor;
- a shaft, said shaft being rotatable by said motor;
- a first gearbox being connected to said shaft and adapted to change the direction of rotation of said shaft, said first gearbox further being connected to said first screw; and
- a second gearbox being connected to said shaft and adapted to change the
- 20 direction of rotation of said shaft, said second gearbox further being connected to said second screw,
- wherein rotation of said shaft rotates said first screw and said second screw at an equal rate of rotation, thereby raising or lowering said panel.
- 25 2. The movable wall of claim 1 further comprising a limiting mechanism to stop said motor from rotating said shaft.
3. The movable wall of claim 2, wherein said limiting mechanism is a contact switch.
- 30 4. The movable wall of claim 2, wherein said limiting mechanism is a timer.

5. The movable wall of claim 1, wherein said first bracket includes:
a top plate;
two side plates, said side plates supporting said top plate; and
5 a ball screw, said ball screw engaging said first screw.
6. The movable wall of claim 5, wherein said second bracket includes:
a top plate;
two side plates, said side plates supporting said top plate; and
10 a ball screw, said ball screw engaging said second screw.